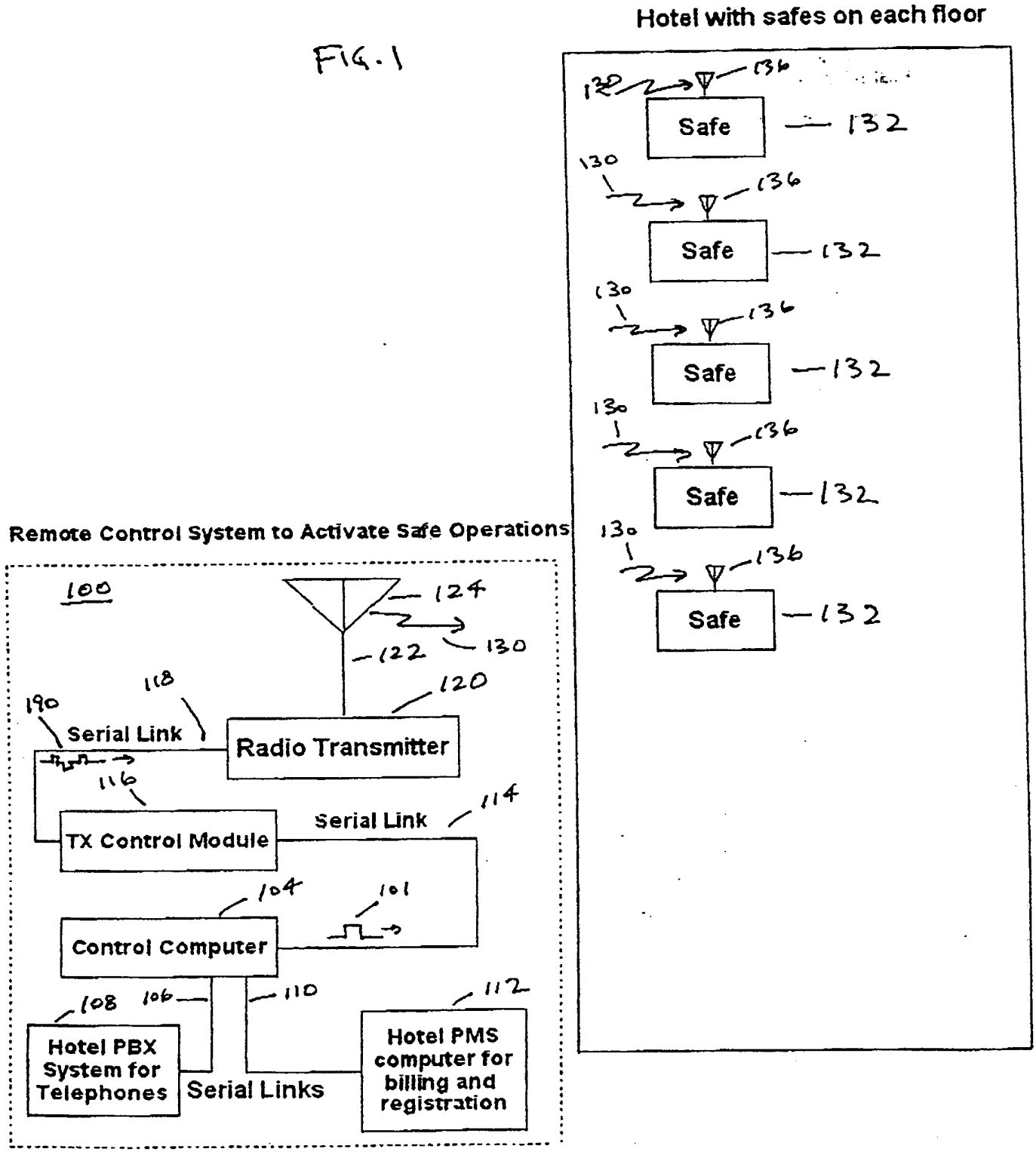
FIG. 1


Hotel with safes on each floor
Safe
132
130
136
Remote Control System to Activate Safe Operations
100
124
122
130
118
120
190
Serial Link
Radio Transmitter
116
TX Control Module
Serial Link
114
104
101
Control Computer
108
106
110
112
Hotel PBX System for Telephones
Serial Links
Hotel PMS computer for billing and registration

20020070009017

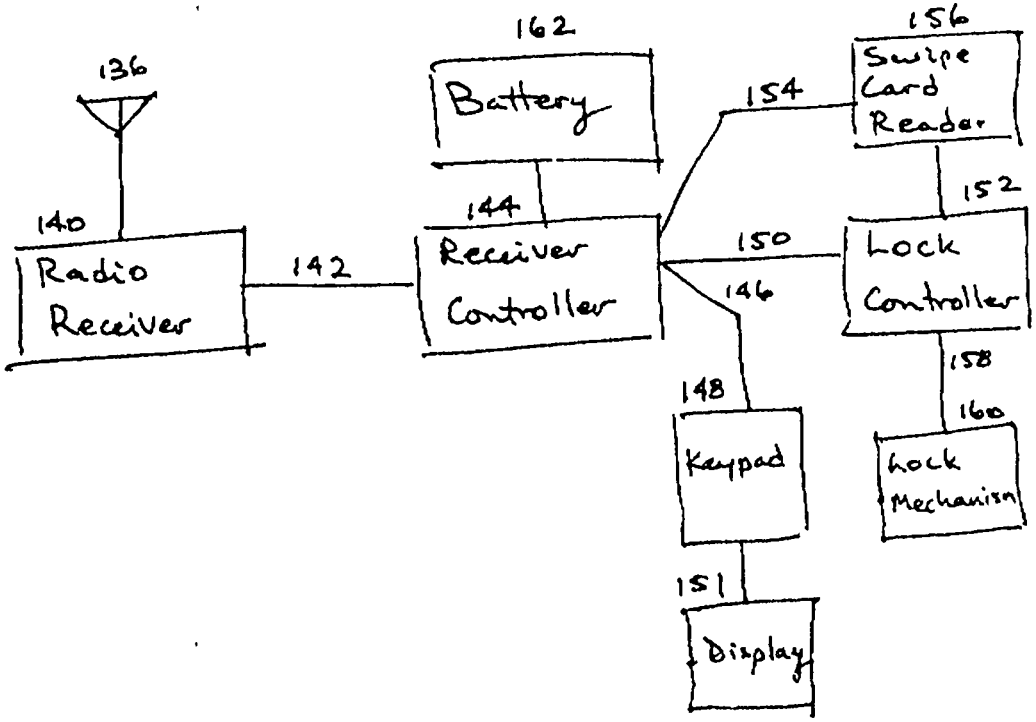



FIG. 2

400 FIG. 3

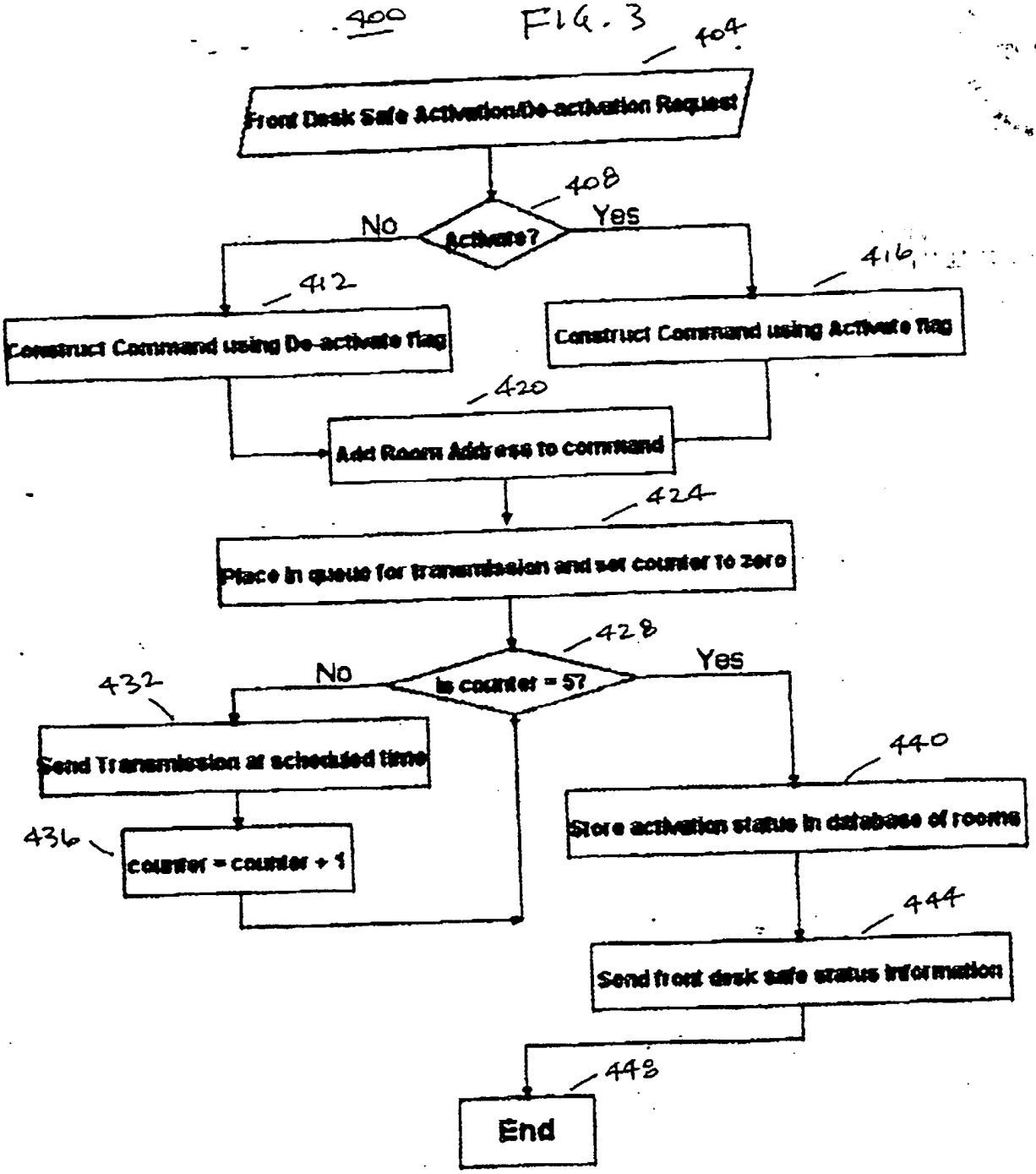
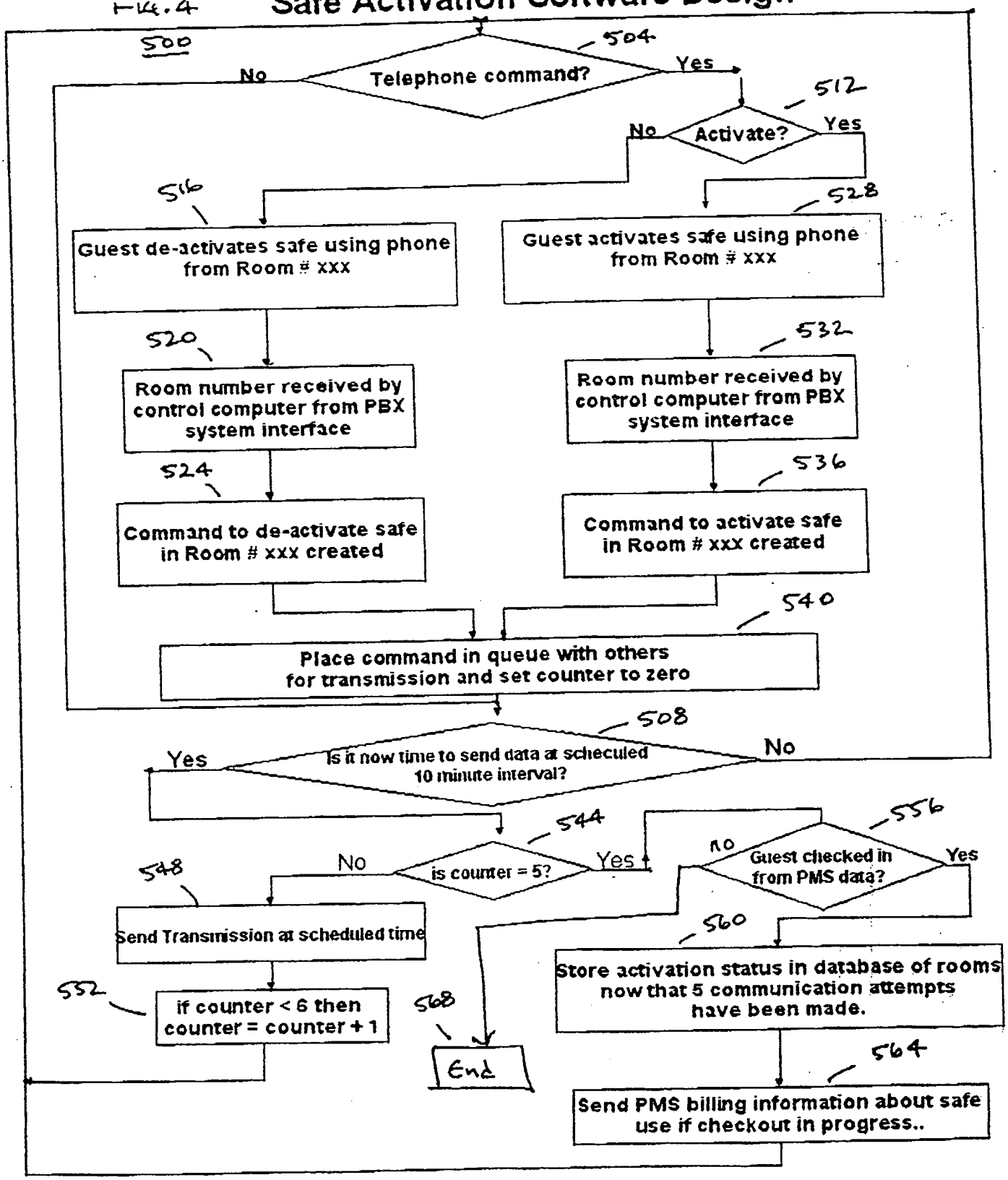

404
Front Desk Safe Activation/De-activation Request
408
Activate?
No
Yes
412
Construct Command using De-activate flag
416
Construct Command using Activate flag
420
Add Room Address to command
424
Place in queue for transmission and set counter to zero
428
Is counter = 5?
No
Yes
432
Send Transmission at scheduled time
436
counter = counter + 1
440
Store activation status in database of rooms
444
Send front desk safe status information
448
End

FIG. 4 Safe Activation Software Design



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# Secure Automatic Opening of Safe Algorithm

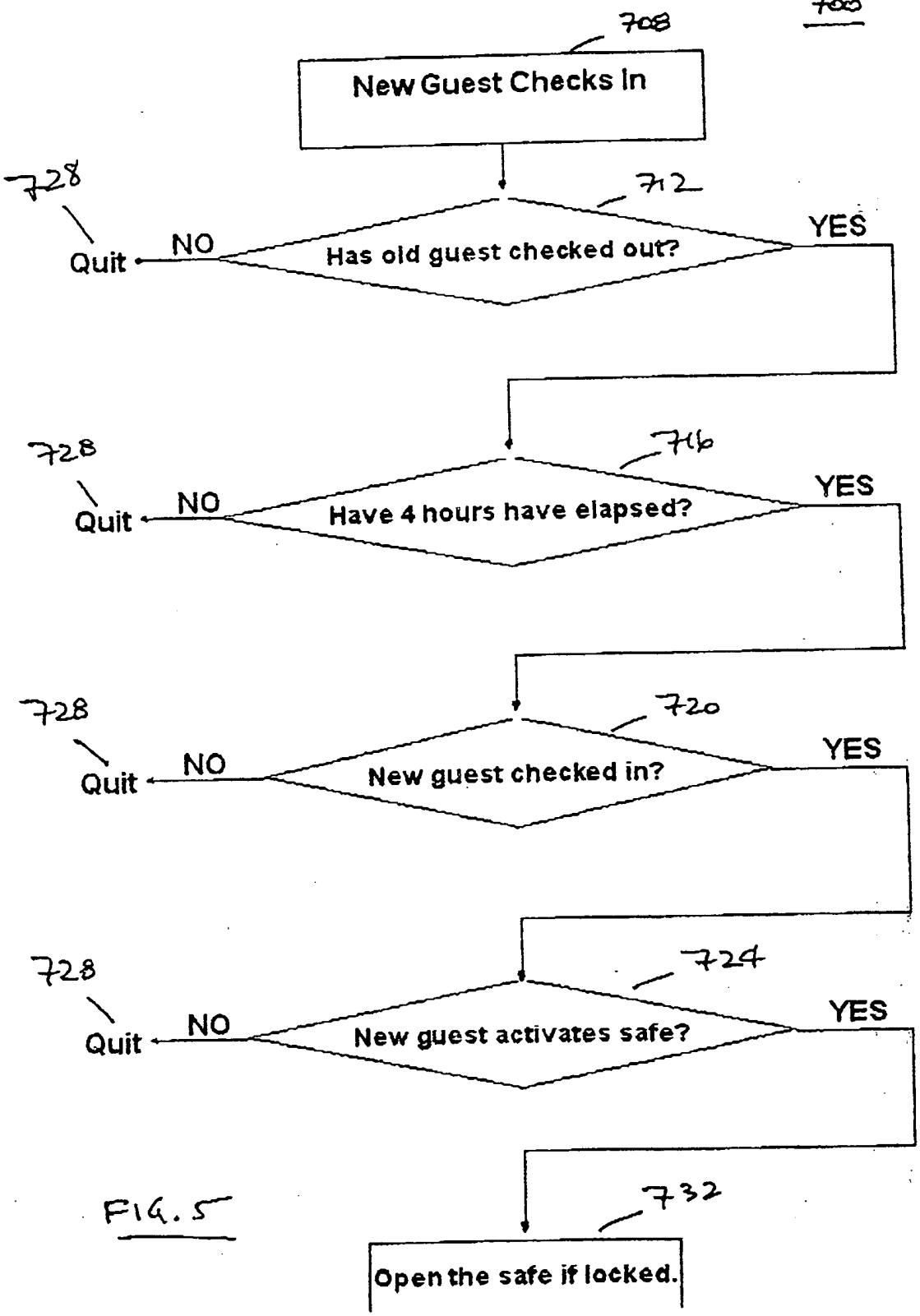


FIG. 5

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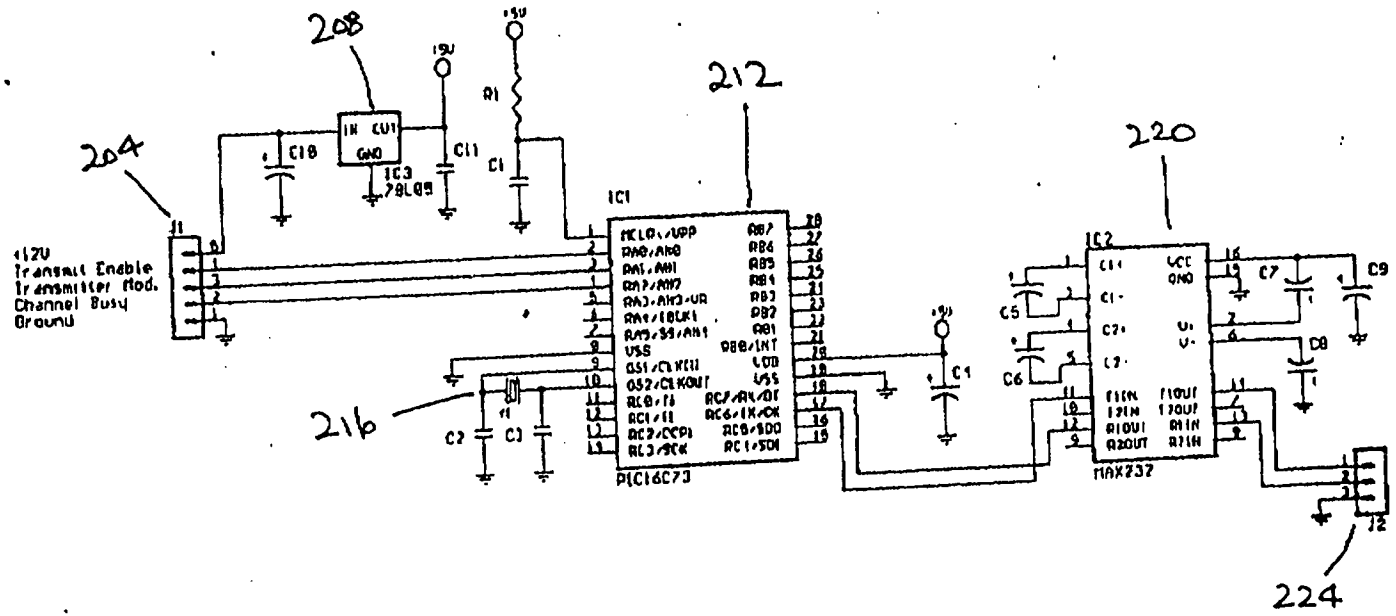


FIG. 6

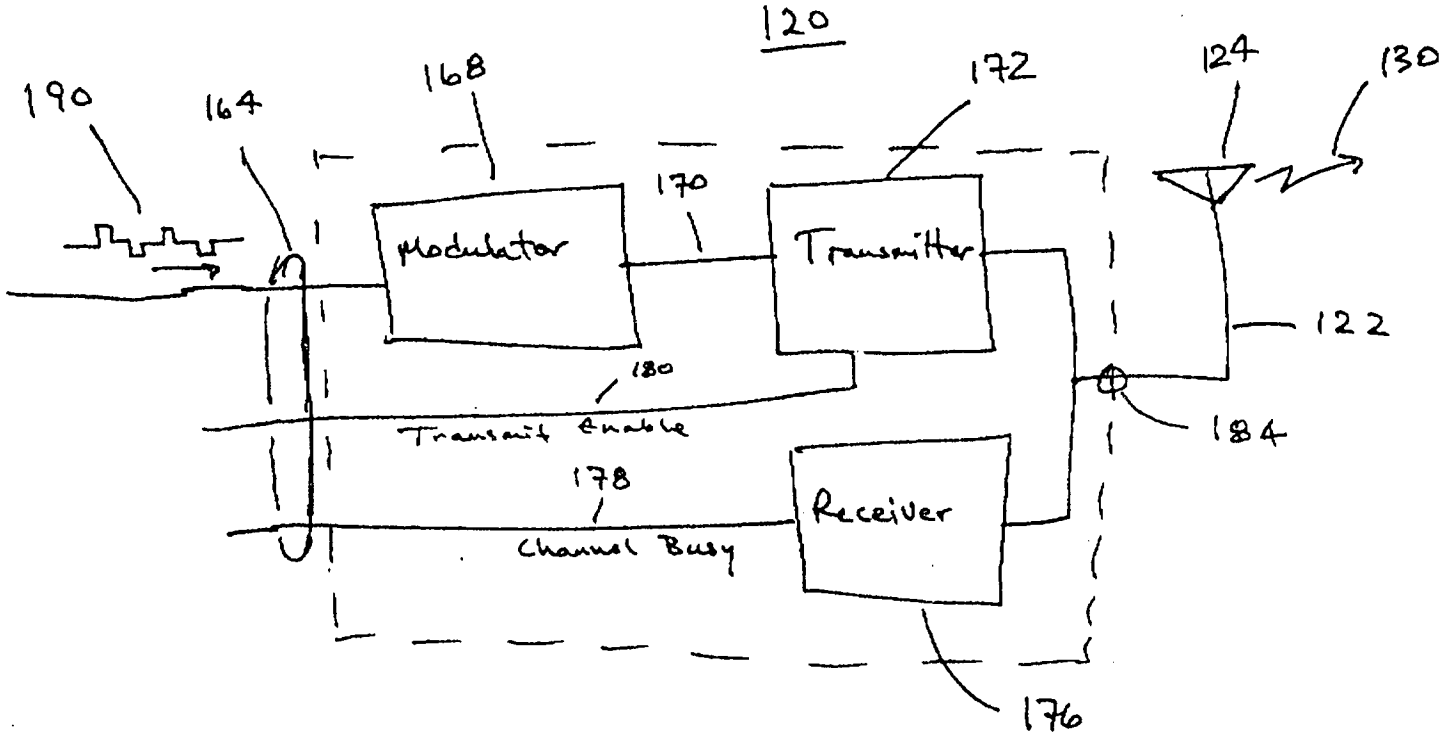
120
190
164
168
172
124
130
170
Modulator
Transmitter
122
180
Transmit Enable
184
178
Receiver
Channel Busy
176

FIG. 7

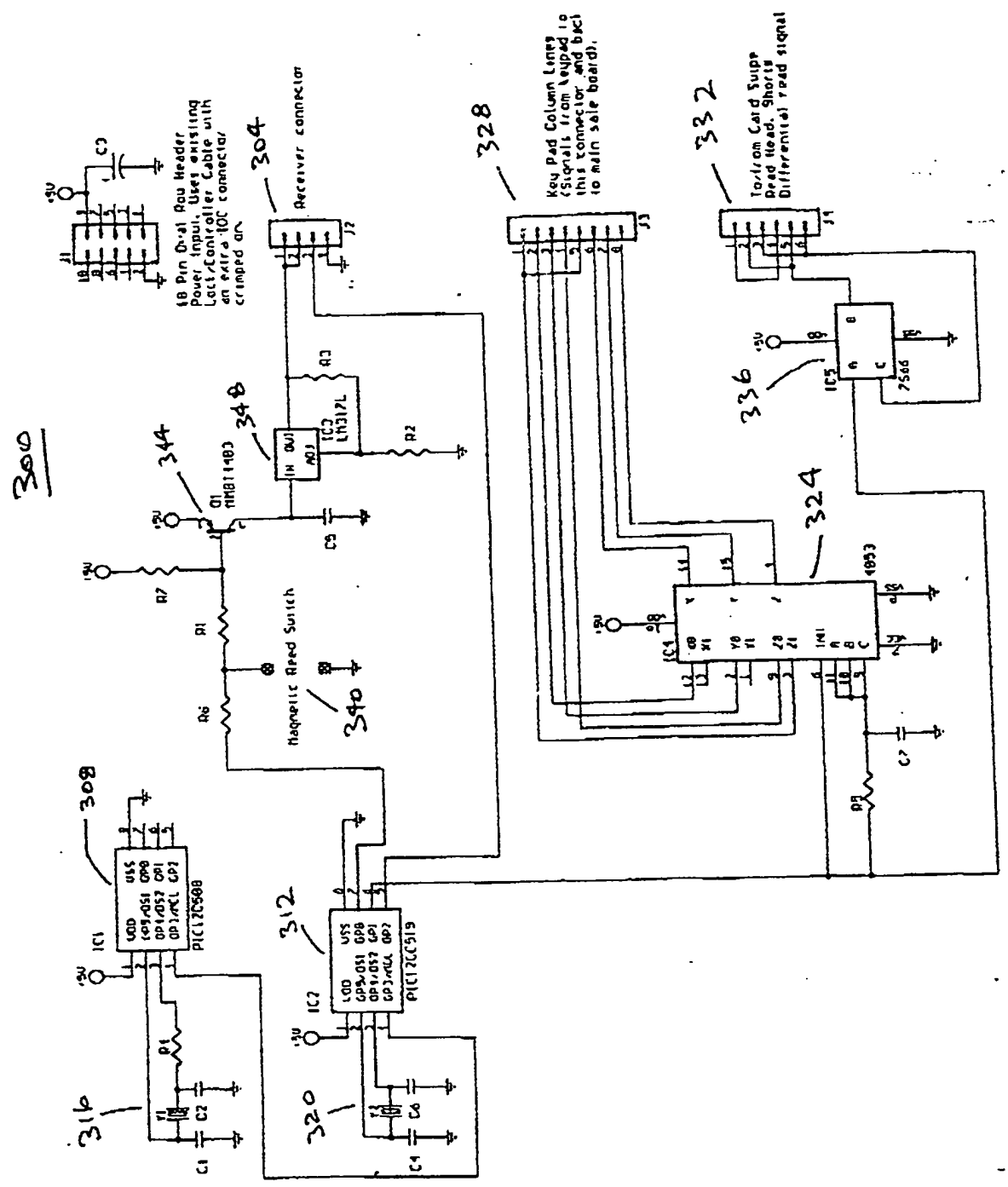
300
304
328
332
336
324
344
348
340
308
312
316
320
18 Pin Dual Row Header
Power Input. Uses existing
Lock Controller Cable with
an extra IDC connector
crimped on
Receiver connector
Key Pad Column Lines
(Signals from keypad to
this connector and back
to main sale board).
To/from Card Supp
Read Head. Shorts
Differential read signal
Magnetic Reed Switch
MMBT1403
LM317L
4053
7566
PIC12C508
PIC12CE519

FIG. 8

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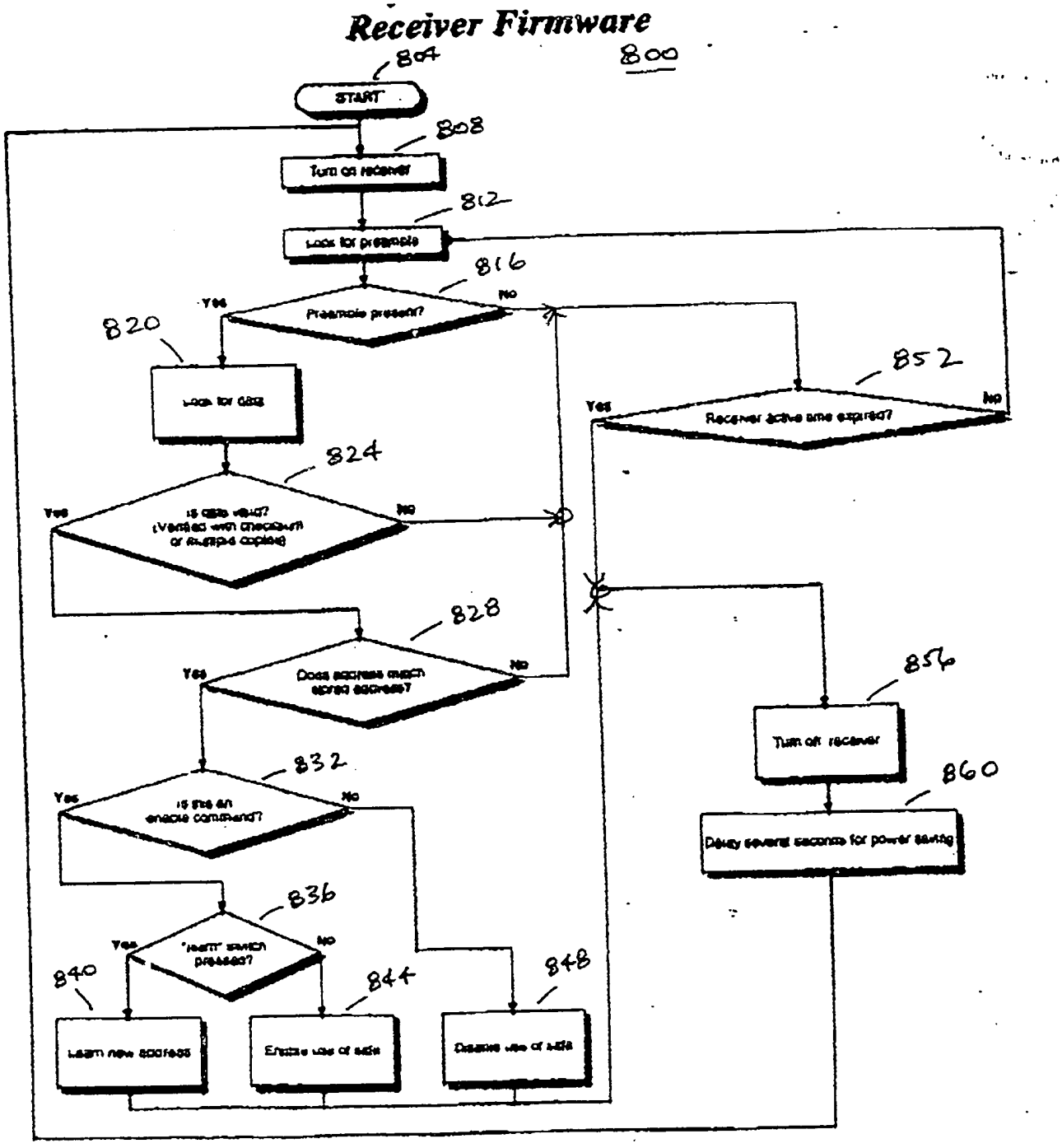


FIG. 9

# Full Building Scan Technique for Safe Battery Optimizatio

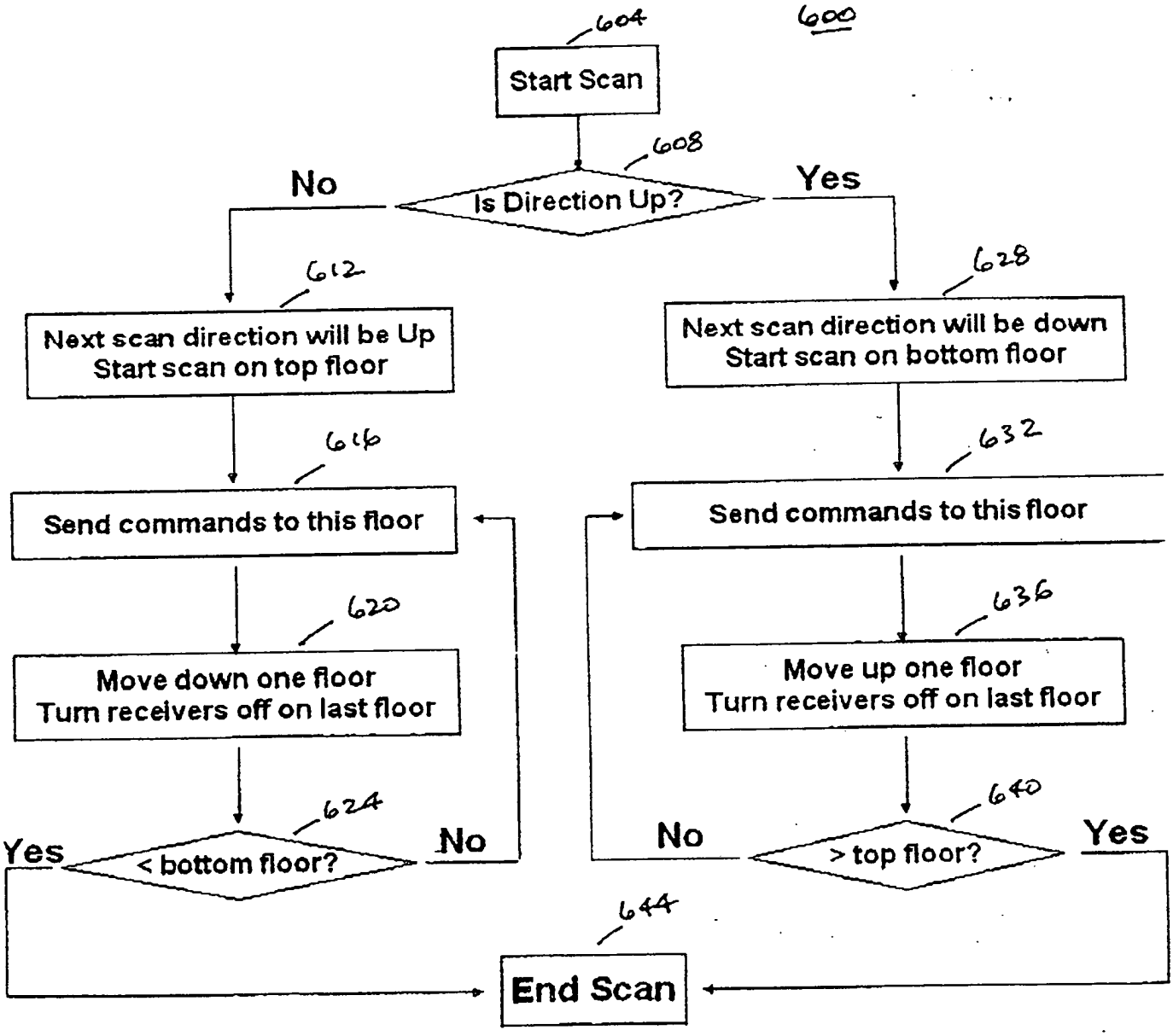


FIG. 10